PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P798-PCT			erence	FOR FURTHER A	ACTION	See Form PCT/IPEA/416	
International application No.			V.1.00	International filing da	ate (day/month/year)	Priority date (day/month/year)	
PCT/JP2004/009466			09466	28.06.200	4	10.07.2003	
ŀ				onal classification and			
C08	L61/	06 , 0	C08K3/22,	, C08L61/3	4		
						4-1	
	Applicant ASAHI ORGANIC CHEMICALS INDUSTRY CO., LTD.						
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2.	2. This REPORT consists of a total of _		4	sheets, including	g this cover sheet.		
3.	This re	port is also a	accompanied by Al	NNEXES, comprising	:		
	a. 🔽	(sent to	the applicant and	to the International Bi	ureau) a total of	sheets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				-		
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental						
	Box.				of alastrania corrier(s))		
	b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
	related thereto, in computer readable form			as indicated in the Supple	_ , containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see		
	m			rative Instructions).			
4.	This re	port contain	s indications relati	ng to the following iter	ms:		
ļ		Box No. I	Basis of the	report			
		Box No. II	Priority				
	닏	Box No. II	I Non-establis	shment of opinion with	n regard to novelty, inventi	ive step and industrial applicability	
		Box No. IV	Lack of unit	ty of invention			
	\boxtimes	Box No. V		atement under Article d explanations support		ty, inventive step or industrial applicability;	
	\sqcup	Box No. V	I Certain docu	uments cited			
		Box No. V	II Certain defe	ects in the international	application		
		Box No. V	III Certain obse	ervations on the interna	ational application		
Date of submission of the demand				Date of completion of thi	is report		
Name and mailing address of the IPEA/JP				Authorized officer			
				Talanka a Ma			
Facsimile No.				Telephone No.			

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009466

Box	No. I		Basis of the report		
1.			o the language, this report is based on the internation er this item.	al application in the language in v	which it was filed, unless otherwise
			port is based on translations from the original languag s the language of a translation furnished for the purpo		· ·
		in in	aternational search (Rule 12.3 and 23.1(b))		
			ublication of the international application (Rule 12.4)		
			aternational preliminary examination (Rule 55.2 and/o		
2.	recei	iving Offi report):	o the elements of the international application, this is in the internation of the internation of the internation in the international application as originally filed/furnished		
	\boxtimes	the desc	cription:		
		pages	1,5-19		as originally filed/furnished
		pages*	2–4	received by this Authority on	12.04.2005
		pages*			
	\boxtimes	the clai			
	_	nos.	9–13		as originally filed/furnished
		nos.*		as amended (together	r with any statement) under Article 19
		•	1-8		•
		nos.*		received by this Authority on	
	П	•		eccived by this Authority on _	
		the drav	wings:		
		sheets			as originally filed/furnished
		sheets*		· · · · · · · · · · · · · · · · · · ·	
		sheets*		received by this Authority on	
	Ш	a seque	nce listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Li	isting.
3.		The am	endments have resulted in the cancellation of:		
		L tł	ne description, pages		
		Lt th	ne claims, nos.		
		tł	ne drawings, sheets/figs		
		Lt ti	ne sequence listing (specify):		
		a:	ny table(s) related to sequence listing (specify):		
4.			port has been established as if (some of) the amendo we been considered to go beyond the disclosure as file		
			ne description, pages		
		ti	ne claims, nos.		
		tl	ne drawings, sheets/figs		
		tl	ne sequence listing (specify):		
		a	ny table(s) related to sequence listing (specify):		
*	If ite	em 4 appl	lies, some or all of those sheets may be marked "supe	rseded."	

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International application No.
PCT/JP2004/009466

Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	1-13	YES		
		Claims		NO		
	Inventive step (IS)	Claims	1-13	YES		
		Claims		NO		
	Industrial applicability (IA	Claims	1-13	YES		
		Claims		NO		

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 2001-261976 A (Otsuka Chemical Co., Ltd., Kawai Sekkai Kogyo Kabushiki Kaisha), 26
 September 2001
 - Document 2: JP 5-279019 A (Yoshida Kogyo Kabushiki Kaisha), 26 October 1993
 - Document 3: JP 4-50105 A (Nissan Chemical Industries, Ltd.), 19 February 1992

Documents 1 and 2 disclose a resin composition containing <u>plate-like</u> boehmite having an average particle diameter (short side) of 100 nm or less, but neither document discloses a resin composition containing <u>needle-like</u> or tube-like boehmite. Moreover, including a needle-like or tube-like boehmite in a resin would not be obvious to a person skilled in the art from the disclosures in documents 1 and 2.

Further, although document 3 does indicate that a resin can contain needle-like boehmite having an average particle diameter (short side) or 100 nm or less, it does not disclose a phenol resin as said resin. Meanwhile, when compared to resins containing other types of boehmite, the present invention produces a remarkable effect of improving mechanical strength due to the

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
inclusion of a specified boehmite, namely, needle-like or
tube-like boehmite having an average particle diameter
(short side) of 100 nm or less, in a phenol resin.
Therefore, the invention set forth in claims 1 to 13
is novel and involves an inventive step.